

*Identifying potential countries
and estimating reach and
impact through rice fortification*

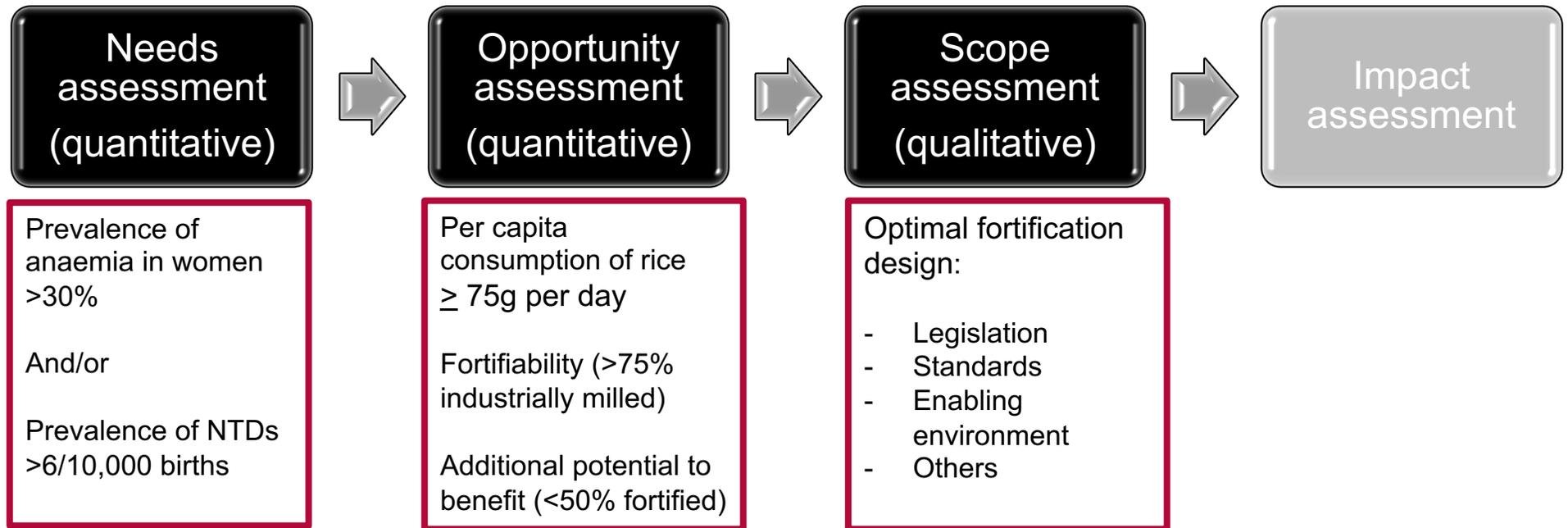


Manpreet Chadha

Senior Technical Advisor, Food Fortification



Country selection: three-step approach



Source: Reducing the Burden of Anemia and Neural Tube Defects in Low- and Middle-Income Countries: An Analysis to Identify Countries with an Immediate Potential to Benefit from Large-Scale Mandatory Fortification of Wheat Flour and Rice. Nutrients 2021.

Impact assessment: Estimations for reach, and health and economic benefits

Reach assessment

Step 1:
Total availability of rice
(considering production & trade landscape)

Step 2:
Total fortifiable rice with potential for fortification
(industrially milled rice, currently not being fortified)

Step 3:
Assessment of overall consumption of fortified rice
(based on per capita consumption)

Step 4:
Assessment of annual reach at scale

Health, economic benefits assessment

Step 1:
Anaemia case years among women averted
(based on existing prevalence; effect size for fortification; severity of anemia)

Step 2:
NTD cases averted (based on level of folic acid in standards, pre- and post-fortification prevalence of NTDs; types of NTDs)

Step 3:
DALYs averted

Step 4:
DALYs monetized

Estimated annual health and economic benefits from nine identified countries

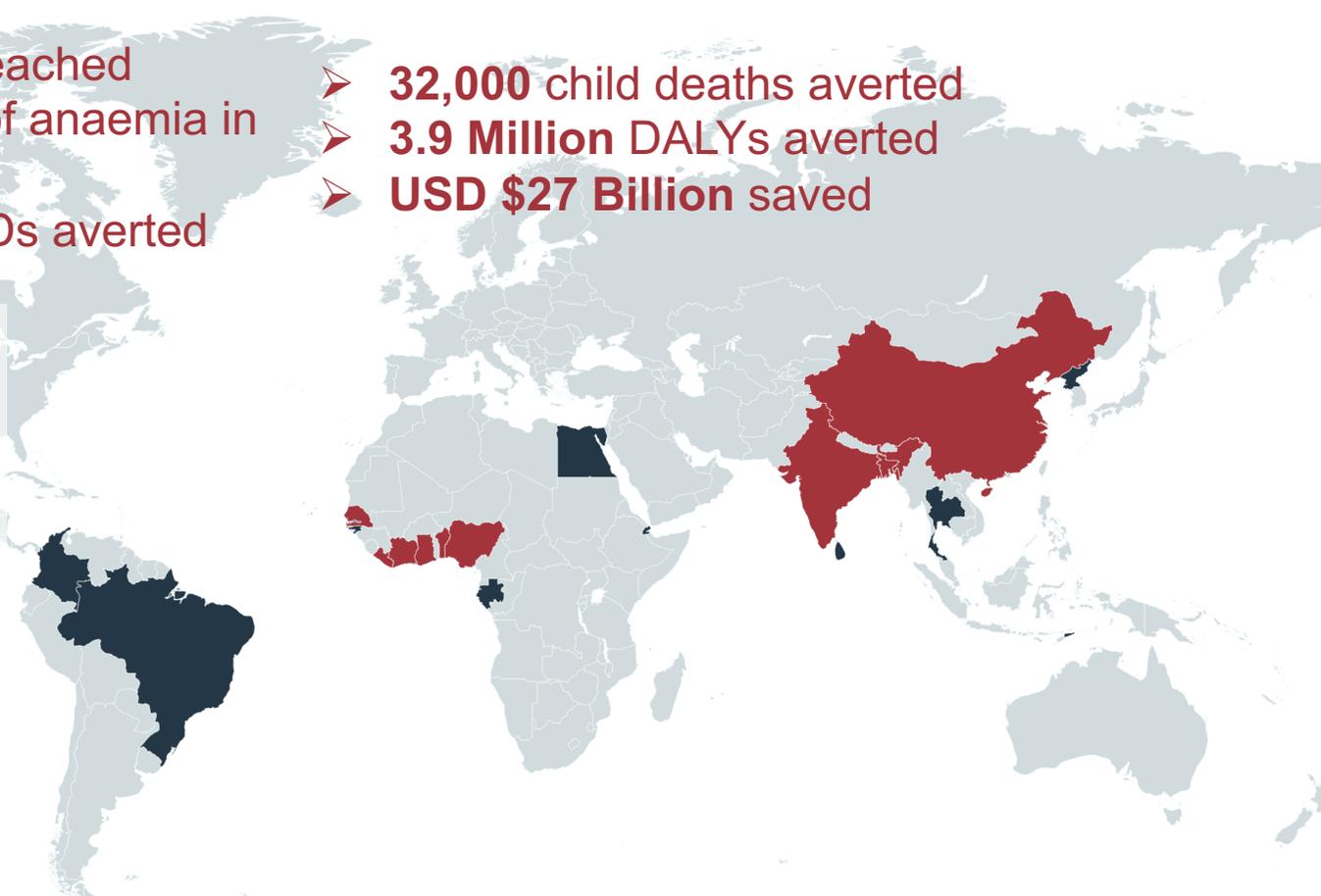
- 1.9 Billion people reached
- 55.4 Million cases of anaemia in WRA averted
- 36,000 cases of NTDs averted
- 32,000 child deaths averted
- 3.9 Million DALYs averted
- USD \$27 Billion saved

● **Countries with potential to benefit from rice fortification programs (n=9)**

Source: Reducing the Burden of Anemia and Neural Tube Defects in Low- and Middle-Income Countries: An Analysis to Identify Countries with an Immediate Potential to Benefit from Large-Scale Mandatory Fortification of Wheat Flour and Rice. Nutrients 2021

● **Additional countries with potential to benefit identified through separate assessments (n=17)**

Sources: The Unfinished Agenda for Food Fortification in Low- and Middle-Income Countries: Quantifying Progress, Gaps and Potential Opportunities. Nutrients 2020.; Better Nutrition for 147 Million People: Rice Fortification Opportunities in the African Region, FFI Assessment



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